```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *
* * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:10:52 ON 14 JAN 2009

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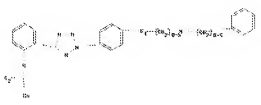

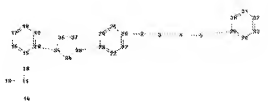

```
chain nodes :
2  3  5  10  11  13  14
ring nodes :
15  16  17  18  19  20  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36
37  38
ring/chain nodes :
4
chain bonds :
2-3  2-26  3-4  4-5  5-29  10-11  10-15  11-13  11-14  20-35  23-38
ring bonds :
15-16  15-20  16-17  17-18  18-19  19-20  22-23  22-27  23-24  24-25  25-26  26-27
28-29  28-33  29-30  30-31  31-32  32-33  34-35  34-38  35-36  36-37  37-38
exact/norm bonds :
2-3  2-26  3-4  4-5  5-29  10-11  10-15  11-13  11-14  20-35  23-38  34-35  34-38
35-36  36-37  37-38
normalized bonds :
15-16  15-20  16-17  17-18  18-19  19-20  22-23  22-27  23-24  24-25  25-26  26-27
28-29  28-33  29-30  30-31  31-32  32-33
isolated ring systems :
containing 15 : 22 : 34 :


G1:Ak,O,S

G2:O,S

Match level :
2:CLASS  3:CLASS  4:CLASS  5:CLASS  10:CLASS  11:CLASS  13:CLASS  14:Atom  15:Atom
16:Atom  17:Atom  18:Atom  19:Atom  20:Atom  22:Atom  23:Atom  24:Atom  25:Atom
26:Atom  27:Atom  28:Atom  29:Atom  30:Atom  31:Atom  32:Atom  33:Atom  34:Atom
35:Atom  36:Atom  37:Atom  38:Atom

=> s l6 sam
L7            0 SEA SSS SAM L6

=> s l6 full
L8            1 SEA SSS FUL L6

=> dis
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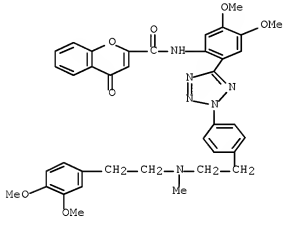
L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 849675-84-9 REGISTRY
ED Entered STN: 03 May 2005
CN 4H-1-Benzopyran-2-carboxamide, N-[2-[2-[4-[2-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]ethyl]phenyl]-2H-tetrazol-5-yl]-4,5-dimethoxyphenyl]-4-oxo- (CA INDEX NAME)
OTHER NAMES:
CN 4-Oxo-4H-chromene-2-carboxylic acid N-[2-[2-[4-[2-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]ethyl]phenyl]-2H-tetrazol-5-yl]-4,5-dimethoxyphenyl]amide
MF C38 H38 N6 O7
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

=> s l8
L9 1 L8

=> dis l9 bib abs

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:324151 CAPLUS Full-text
DN 142:373847
TI Preparation of [(isoquinolinyl)ethyl]phenyl tetrazoles as P-glycoprotein inhibitors
IN Bang, Keuk Chan; Cha, Mi Young; Ahn, Young Gil; Ham, Young Jin; Kim, Maeng Sup; Lee, Gwan Sun
PA Hanmi Pharm. Co., Ltd., S. Korea
SO PCT Int. Appl., 53 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005033097	A1	20050414	WO 2004-KR2550	20041006
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	KR 2005033734	A	20050413	KR 2003-69582	20031007
	AU 2004277475	A1	20050414	AU 2004-277475	20041006
	AU 2004277475	B2	20070809		
	CA 2541301	A1	20050414	CA 2004-2541301	20041006
	EP 1678162	A1	20060712	EP 2004-774778	20041006
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	CN 1863795	A	20061115	CN 2004-80029356	20041006
	BR 2004015053	A	20061128	BR 2004-15053	20041006
	JP 2007507493	T	20070329	JP 2006-532094	20041006
	RU 2317985	C1	20080227	RU 2006-114427	20041006
	US 20070072900	A1	20070329	US 2006-574098	20060331
	MX 2006PA03803	A	20060703	MX 2006-PA3803	20060405
	IN 2006DN02327	A	20070713	IN 2006-DN2327	20060427
	NO 2006002019	A	20060706	NO 2006-2019	20060505
PRAI	KR 2003-69582	A	20031007		
	WO 2004-KR2550	W	20041006		

OS CASREACT 142:373847; MARPAT 142:373847
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. represented by the formula I [wherein R1 = (un)substituted (hetero)aryl, acryl(hetero)aryl, heterocycloalkenyl, carbocyclo; R2-R11 = independently H, OH, halo, nitro, alkyl, alkoxy or R6R11 = cyclic ring; m, n = 1-4; X = CH2, O or S; and pharmaceutically acceptable salts thereof] were prepared as P-glycoprotein inhibitors. For example, II was given in a multi-step synthesis starting from the reaction of 4-nitrophenyl bromide with 6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline•HCl. I showed inhibition of P-glycoprotein measured by using MCF-7 and MCF-7/Dx cell line and were tested for in vivo absorption of orally administered paclitaxel. Thus, I and their pharmaceutical compns. are useful as P-glycoprotein inhibitors for the treatment of cancers.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y
STN INTERNATIONAL LOGOFF AT 09:22:04 ON 14 JAN 2009